OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
CALCULATION COVER SHEET

1. QA: QA

2. Calculation Title
84-Kilometer Radiological Monitoring Grid

MOL.20000811.0007

3. Document Identifier (including Revision Number)
CAL-MGR-EV-000001/Rev. 00

4. Total Attachments	5. Attachment Numbers - Number of pages in each
2	Attachment I (28 pages), Attachment II (1 page)

	Print Name	Signature	Date
6. Originator	Linda K. Roe		7/31/00
7. Checker	Dale S. Ambos		7/31/00
8. Lead	Robert L. Kimble By		7/31/00

9. Remarks

Final

Revision History

10. Revision No.	11. Description of Revision
Rev. 00	Initial issue

CONTENTS

1. PURPOSE

The purpose of this calculation is to document the development of a radial grid that is suitable for evaluating the pathways and potential impacts of a release of radioactive materials to the environment within a distance of 84 kilometers (km). The center of the grid represents an approximate location from which a potential release of radioactive materials could originate. The center is located on Nevada State Plane coordinates Northing 765621.5, and Easting 570433.6, which is on the eastern side of Exile Hill at the Yucca Mountain site. The North Portal Pad is located over this point.

The grid resulting from this calculation is intended for use primarily in the Radiological Monitoring Program (RadMP). This grid also is suitable for use in Biosphere Modeling and other Yucca Mountain Site Characteristic Project (YMP) activities that require the evaluation of data referenced by spatial or geographic coordinates.

This calculation was performed in accordance with AP-3.12Q Rev 0/ICN 2, *Calculations*. The *Development Plan for Radiological Monitoring Support* (CRWMS M&O 2000a) was prepared in accordance with AP-2.13Q, *Technical Product Development Planning*.

2. METHOD

The method employed in this calculation consisted of using Arc/Info (Geographic Information System (GIS) software) to create a coverage for an 84-kilometer radial grid that is centered on Nevada State Plane coordinates Northing 765621.5, Easting 570433.6, having 160 cells formed by 10 concentric rings and 16 sixteen evenly-spaced sections (22.5 degrees each) radiating from the center. The cell labels were derived from a concatenation of the numbering system of the rings and sections.

The accuracy of the calculation was checked in accordance with the controls specified in AP-SV.1Q, *Control of the Management of Electronic Data*. This was accomplished by comparing the specifications described above, such as the coordinates for the center of the grid, with the electronic data that constitutes the Arc/Info coverage RADGRIDU (MO9912COV97202.000).

The RADGRIDU coverage (MO9912COV97202.000) was transferred in an Arc/Info .EOO export file format to the Technical Data Management System in accordance with AP-SIII.3Q, *Submittal and Incorporation of Data to the Technical Data Management System* and in accordance with the controls specified in AP-SV.1Q, *Control of the Management of Electronic Data*. A cyclic redundancy check (CRC) is used to detect any error resulting from the transfer of the Arc/Info .EOO file. The RADGRIDU coverage (MO9912COV97202.000) also was submitted to the Records Processing Center in accordance with AP-17.1Q, *Record Source Responsibilities for Inclusionary Records*.

3. ASSUMPTIONS

None

4. USE OF COMPUTER SOFTWARE AND MODELS

This calculation was performed using *Arc/Info V7.2.1, STN: 10033-7.2.1-0*. This GIS software was added to the M&O Baseline of Qualified Software on February 10, 2000 (CRWMS M&O 2000b) in accordance with AP-SI.1Q, *Software Management. Arc/Info V7.2.1* was obtained from Configuration Management and run on a SGI-LV platform on CPU 112570. *Arc/Info V7.2.1* is the appropriate software for this application, and it was used within the range of the validation documentation.

5. CALCULATION

The 84km grid was produced using *Arc/Info V7.2.1, STN: 10033-7.2.1-0*. Ring 1 of this grid was created by establishing the center point at Nevada State Plane coordinates Northing 765621.5, Easting 570433.6, and identifying the Nevada State Plane coordinates in the four cardinal directions, then adding or subtracting 13123.35958 feet to the coordinates of the center point. Ring 2 was created by adding or subtracting 12km to the coordinates of the center point, ring 3 by adding or subtracting 16km to the coordinates of the center point, ring 4 by adding or subtracting 20km to the coordinates of the center point, and so on until ring 11 which is 84km from the center point. Sixteen evenly spaced sections (22.5 degrees each) were created by sixteen "spokes" radiating from a specified central point. 160 cells are formed by 10 concentric rings and 16 pie-slices. At the center of the grid is a hub, which is a 4km-radius circle center. The hub does not have a cell label. The cell labels are derived from a concatenation of the numbering system of the rings and slices. The 10 rings are numbered out from the center. Each ring is 8km wide, making the entire grid 84km in radius {(10 rings * 8km) + 4km = 84km}. The circular grid is divided into 16 equal slices pointing in the cardinal directions. The 16 slices are numbered counterclockwise beginning with the section directly north. Example - Ring 6 and slice 4 = cell 604. Refer to Attachment I, Metadata for RADGRIDU, for further details regarding this calculation.

The dimensions of this grid are based on requirements and technical guidelines set forth by the Nuclear Regulatory Commission in Regulatory Guide 4.2, *Preparation of Environmental Reports for Nuclear Power Stations*.

6. RESULTS

The calculation resulted in an Arc/Info coverage titled RADGRIDU (MO9912COV97202.000) that can be used to generate a visual representation of radial grid that is suitable for evaluating the pathways and potential impacts of a release of radioactive materials to the environment within a distance of 84 kilometers (km). This calculation does not contain information or assumptions that require confirmation (in accordance with AP-3.15Q, *Managing Technical Product Inputs*) prior to use of the results.

Attachment II, Areas Monitored for Socioeconomic Analysis Within the 84 KM Radiological Monitoring Grid, provides an image of grid relative to areas monitored as part of the RadMP (MO0003YMP99045.001). This map is included here as reference only and is not a quality-affecting record.

7. REFERENCES

7.1 DOCUMENTS CITED

CRWMS M&O 2000a. *Development Plan for Radiological Monitoring Support.* DI: TDP-MGR-EV-000007, Rev. 00. Las Vegas, Nevada. CRWMS M&O. ACC: MOL.20000424.0677.

7.2 CODES, STANDARDS, REGULATIONS, AND PROCEDURES

AP-2.13Q, *Technical Product Development Planning.* Washington, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000620.0067.

AP-3.12Q, *Calculations*, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000620.0068.

AP-3.15Q, *Managing Technical Product Inputs.* Washington, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000713.0363.

AP-SI.1Q, *Software Management.* Washington, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000223.0508.

AP-SIII.3Q, *Submittal and Incorporation of Data to the Technical Data Management System.* Washington, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000418.0808.

AP-SV.1Q, *Control of the Electronic Management of Data.* Washington, D.C.: U.S. Department of Energy, Office of Civilian Radioactive Waste Management. ACC: MOL.20000512.0068.

Regulatory Guide 4.2, Rev. 2. 1976. *Preparation of Environmental Reports for Nuclear Power Stations.* Washington, D.C.: U.S. Nuclear Regulatory Commission. Readily Available.

7.3 DATA

MO9912COV97202.000. *RADGRIDU.* Graphic Information System Coverage – G97202. Submittal date: 12/07/99

MO0003YMP99045.001. *Areas Monitored for Socioeconomic Analysis Within the 84 KM Radiological Monitoring Grid.* Graphic Information System Map Product – YMP-99-045.1. Submittal date: 03/17/2000.

7.4 SOFTWARE

CRWMS M&O 2000b. *Software Baseline Request for LV-1999-006, ARC/INFO V7.2.1.* 10033-7.2.1-00. Las Vegas, Nevada: CRWMS M&O. ACC: MOL.20000519.0018.

8. ATTACHMENTS

Attachment I - Metadata for RADGRIDU
Attachment II - Areas Monitored for Socioeconomic Analysis Within the 84 KM Radiological Monitoring Grid

ATTACHMENT I

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: DOE/OCRWM/YMSCO
Publication_Date: 20000712
Publication_Time:
Title: Arc/Info coverage - RADGRIDU
Edition:
Geospatial_Data_Presentation_Form: Coverage
Series_Name:
Issue_Identification:
Publication_Information:
Publication_Place: YMSCO, Las Vegas, NV
Publisher: Department of Energy (DOE)
Other_Citation_Details: MO9912COV97202.000
Online_Linkage:
Larger_Work_Citation: G97202,G00006

Description:
Abstract:
This coverage contains polygon and line features of the 84km Radiological Monitoring Grid.

Purpose:
This data was developed for use on the Department of Energy's Yucca Mountain Site Characterization Project.
This data is intended to be used in determining site suitability of Yucca Mountain for the long term geologic storage of high-level radioactive waste.

Supplemental_Information:

Procedures_Used:
This data was automatically generated with the use of Arc: GENERATE which creates and adds features to a coverage. Features are created by reading coordinates from an input file using the INPUT subcommand. The coverage is then built with the appropriate feature class. Additional Arc procedures may be referenced by viewing the attached log file. The coverage is exported for arc interchange data transfers using Arc:EXPORT.

To use this data, use Arc:IMPORT. To verify arc aspects or obtain specifications about this coverage, use Arc:DESCRIBE.

This grid has 160 cells formed by 10 concentric rings and 16 pie-slices. At the center of the grid is a hub which is a 4km radius circle center on UE-25 RF#11. The hub does not have a cell label. The cell labels are derived from a concatenation of the numbering system of the rings and slices. There are 10 rings in the grid numbered out from the center. Each ring is 8km wide, making the entire grid 84km in radius {(10 rings * 8km) + 4km = 84km}. The circular grid is divided into 16 equal slices pointing in the cardinal directions. The 16 slices are numbered counterclockwise beginning with the ring pointing directly north. Example - Ring 6 and slice 4 = cell 604.

Borehole UE-25 RF#11 was identified as the center of the 84km radiological monitoring grid (by Linda Roe, SAIC). Sixteen "spokes" were created that radiated from this central point. A 4km radius circle surrounding the center point was created by identifying the NV State Plane coordinates in the four cardinal directions. This was done by adding or subtracting 13123.35958 feet to the state plane coordinates at the center point (N765621.5, E570433.6). These coordinates were placed into a text file. The Arc: GENERATE command with the curve and input options and a grain of .001 was used to create the 4km radius circle. The remaining 11 circles form the 8km wide rings that are spaced 8km apart. This procedure was repeated to create text files for the other rings. Ring 2 was created by adding or subtracting 12km, ring 3 by adding or subtracting 16km, ring 4 by adding or subtracting 20km, and so on until ring 11 which is 84km from the center point.

The "ring" and "slice" items in the PAT were added for analysis purposes. These items can be concatenated in ArcPlot to produce the cell labels in map products. Some annotation labelling of the grid and slice direction and labels are included.

This coverage was developed in Universal Transverse Mercator (UTM) (Zone 11) coordinate system, in meters.

The Arc:LABELERRORS and Arc:NODEERRORS commands were executed on this coverage and no known label or node errors were detected.

Revisions:
To view additional information for this coverage, use Arc:LOG.

Reviews_Applied_to_Data:
This data has been reviewed to ensure conformance to the source data.

Related_Spatial_and_Tabular_Data_Sets:
None.

Other_References_Cited:
M&O/TRW Technical Data Management. 1997. 84km Radiological Monitoring Grid Coverage. Prepared for the U.S. Department of Energy, Yucca Mountain Site Characterization Office. DTN TM00121362T1EA.001

Notes:
Arc: describe radgridu
. Description of SINGLE precision coverage radgridu

. FEATURE CLASSES

Feature Class	Subclass	Number of Features	Attribute data (bytes)	Spatial Index?	Topology?
ARCS		378	76		
POLYGONS		162	142		Yes
NODES		218	12		
ANNOTATIONS	(blank)	177			

. SECONDARY FEATURES

Tics	4
Arc Segments	15007
Polygon Labels	161

. TOLERANCES

Fuzzy = 16.800 V Dangle = 0.000 V

. COVERAGE BOUNDARY

Xmin = 467177.969 Xmax = 635179.875
Ymin = 3994532.000 Ymax = 4162521.500

. STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection UTM
Zone 11
Datum NAD27
Units METERS Spheroid CLARKE1866
Parameters:

DOE: Department of Energy
OCRWM: Office of Civilian Radioactive Waste Management
YMSCO: Yucca Mountain Site Characterization Office

This metadata report was created with the use of Arc:DOCUMENT.
This format is designed to be compliant with the Federal Geographic Data Committee Spatial Data Transfer Standard.

Document file preparer: Barbara Kistler Date: 19970903
Document file updated by: Said Sadri Date: 19980327
. Alexis R. Johnson Date: 20000105
. Shaun Weller Date: 20000712
Document file verified by: Barbara Kistler Date: 19970903
. Barbara Kistler Date: 19980330
DTN Number verified by: Shaun Weller Date: 20000107

Time_Period_of_Content:
Time_Period_Information:
Calendar_Date: Unknown
Currentness_Reference:
This dataset is current as of 20000712.

Status:
Progress: Complete
Maintenance_and_Update_Frequency:
Maintenance and updates are conducted on an as needed basis.

Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -117.37187318
East_Bounding_Coordinate: -115.46864976

North_Bounding_Coordinate: 37.61104627
South_Bounding_Coordinate: 36.08782224
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Theme:
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Theme_Keyword: Arc/Info coverage of 84km Radiological Monitoring Grid
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Southern NV (Clark,Nye,Esmeralda counties), Southeastern CA (Inyo county)
Stratum:
Stratum_Keyword_Thesaurus: None
Stratum_Keyword: None
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Temporal_Keyword_Thesaurus: None
Temporal_Keyword: None
Access_Constraints:
No access constraints.

Use_Constraints:
The data are qualified in accordance with the Quality Assurance Requirements and Description (DOE/RW/0333P).

Data created by calculation CAL-MGR-EV-000001 in accordance with AP-3.12Q

ARC/INFO software qualified pursuant to AP-SI.1Q

Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Steve Bodnar /Barbara Kistler
Contact_Organization: TRW Technical Data Management
Contact_Position: Mgr, TDM/GIS Baseline Admin.
Contact_Address:
Address_Type: physical address
Address: 1180 Town Center Drive
City: Las Vegas
State_or_Province: Nevada
Postal_Code: 89134
Country: USA
Contact_Voice_Telephone: (702) 295-4826
Contact_Facsimile_Telephone: (702) 295-4730
Contact_Electronic_Mail_Address: brk@halifax.ymp.gov

Hours_of_Service: 8am - 5pm

Data_Set_Credit:
Coverage developed by Audrey Rager, M&O/TRW-TDM.

Security_Information:
Security_Classification_System: None
Security_Classification: Unclassified
Security_Handling_Description: None
Native_Data_Set_Environment: IRIX64, 6.5, IP27 UNIX, ARC/INFO version 7.2.1
Cross_Reference:
Citation_Information:
Originator: M&O/TRW Technical Data Management Department
Publication_Date: 1996
Publication_Time:
Title: 84km Radiological Monitoring Grid
Edition:
Geospatial_Data_Presentation_Form: Coverage
Series_Information:
Series_Name:
Issue_Identification:
Publication_Information:
Publication_Place: YMSCO, Las Vegas, NV
Publisher: Department of Energy (DOE)
Other_Citation_Details: DTN TM00121362T1EA.001
Online_Linkage:
Larger_Work_Citation: G97202,G00006

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: See Entity_Attribute_Information
Quantitative_Attribute_Accuracy_Assessment:
Attribute_Accuracy_Value: See Explanation
Attribute_Accuracy_Explanation:
Attribute accuracy is described, where present, with each
attribute defined in the Entity and Attribute Section.
Logical_Consistency_Report: Polygon and chain-node topology present.
Completeness_Report:
See Entity and Attribute Overview

Positional_Accuracy:
Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:
This dataset meets the Spatial Registration Standard, Conformance Levels 1 and 2.

Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report:
This dataset meets the Spatial Registration Standard, Conformance Levels 1 and 2.

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Source_Citation:
Citation_Information:
Originator:
Publication_Date:
Title:
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Type_Of_Source_Media:
Source_Time_Period_of_Content:
Time_Period_Information:
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Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: ALH ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970528
Process_Time: 1513
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: ALH ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970528
Process_Time: 1515
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU LINE

Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 0959
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1000
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1112
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1119
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1119
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1132
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1134
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU LINE
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1134

Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1135
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1140
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1140
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU LINE
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1141
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1141
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1143
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1143
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU

Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1154
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1155
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR ARCEDIT /PRODUCTS/YMP-97-090/84KMRADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1156
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR BUILD 84KMRADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970813
Process_Time: 1157
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK COPY /PRODUCTS/YMP-97-090/84KMRADGRIDU
RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1238
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK ARCEDIT /PRODSGI/G97202/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1250
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK BUILD RADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1250
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK LABELERRORS RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903

Process_Time: 1427
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK NODEERRORS RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1432
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK DOCUMENT RADGRIDU UPDATE BRK
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1436
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK DOCUMENT RADGRIDU UPDATE BRK
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1451
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: GISBA COPY /PRODSGI/G97202/RADGRIDU RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19970903
Process_Time: 1452
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: AHR DOCUMENT RADGRIDU UPDATE AHR
Source_Used_Citation_Abbreviation: None
Process_Date: 19980226
Process_Time: 1017
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SAID COPY /GIS/ECON/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1045
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SAID ARCEDIT /PRODSGI/G97565/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1159
Source_Produced_Citation_Abbreviation: None
Process_Step:

Process_Description: SAID ARCEDIT /PRODSGI/G97565/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1202
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SAID LABELERRORS RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1220
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SAID NODEERRORS RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1220
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SAID DOCUMENT RADGRIDU UPDATE SAID
Source_Used_Citation_Abbreviation: None
Process_Date: 19980327
Process_Time: 1222
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK ARCEDIT /PRODSGI/G97565/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330
Process_Time: 0808
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK ARCEDIT /PRODSGI/G97565/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330
Process_Time: 0809
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK ARCEDIT /PRODSGI/G97565/RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330
Process_Time: 0810
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK BUILD RADGRIDU POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330

Process_Time: 0810
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: BRK DOCUMENT RADGRIDU UPDATE BRK
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330
Process_Time: 0817
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: GISBA COPY /PRODSGI/G97565/RADGRIDU RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 19980330
Process_Time: 0827
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: GISBA DOCUMENT RADGRIDU UPDATE GISBA
Source_Used_Citation_Abbreviation: None
Process_Date: 19990407
Process_Time: 1216
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: ARJ COPY /GIS/RADMON/RADGRIDU RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 20000105
Process_Time: 1203
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: ARJ DOCUMENT RADGRIDU UPDATE ARJ
Source_Used_Citation_Abbreviation: None
Process_Date: 20000105
Process_Time: 1220
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: ARJ DOCUMENT RADGRIDU UPDATE ARJ
Source_Used_Citation_Abbreviation: None
Process_Date: 20000105
Process_Time: 1334
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN BUILD RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1335
Source_Produced_Citation_Abbreviation: None
Process_Step:

Process_Description: MFK COPY RADGRIDU SHITTEST
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1508
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN IDEDIT SHITTEST POLY
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1531
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN BUILD SHITTEST
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1532
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN COPY SHITTEST RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1538
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN BUILD RADGRIDU
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1550
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN DOCUMENT RADGRIDU UPDATE SHAUN
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1634
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN DOCUMENT RADGRIDU UPDATE SHAUN
Source_Used_Citation_Abbreviation: None
Process_Date: 20000107
Process_Time: 1639
Source_Produced_Citation_Abbreviation: None
Process_Step:
Process_Description: SHAUN DOCUMENT RADGRIDU UPDATE SHAUN
Source_Used_Citation_Abbreviation: None
Process_Date: 20000712

Process_Time: 1506
Source_Produced_Citation_Abbreviation: None
Cloud_Cover: NA

Spatial_Data_Organization_Information:
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point
Point_and_Vector_Object_Count: 161
SDTS_Point_and_Vector_Object_Type: String
Point_and_Vector_Object_Count: 378
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
Point_and_Vector_Object_Count: 162

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name:
Universal_Transverse_Mercator
UTM_Zone_Number: 11
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 1.0
Ordinate_Resolution: 1.0
Planar_Distance_Units: METERS
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866
Semi-major_Axis: 6378206.4
Denominator_of_Flattening_Ratio: 294.98

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: RADGRIDU.PAT
Entity_Type_Definition: Polygon Attribute Table
Entity_Type_Definition_Source: DOE/OCRWM/YMSCO
Attribute:
Attribute_Label: -
Attribute_Definition: Polygon Attribute Table
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: -
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: AREA
Attribute_Definition: Area of poly/region in square coverage units
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Positive real numbers
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: PERIMETER
Attribute_Definition: Perimeter of poly/region in coverage units
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Positive real numbers
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RADGRIDU#
Attribute_Definition: Internal feature number
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RADGRIDU-ID
Attribute_Definition: User-assigned feature number
Attribute_Definition_Source: User-defined
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: DESCRIPTION
Attribute_Definition: Description of dataset feature
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:

Enumerated_Domain:
Enumerated_Domain_Value: 84KM RADIOLOGICAL MONITORING GRID
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RING
Attribute_Definition: Ring identifier, numbered in ascending order away from center
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SEE ATTRIBUTE DISCUSSION
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: SLICE
Attribute_Definition: Slice identifier, numbered in ascending order counterclockwise from north
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: SEE ATTRIBUTE DISCUSSION
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: SOURCE
Attribute_Definition: Link to the GENTS database for complete source info
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: G97202,G96316,G96278
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: SSYM
Attribute_Definition: Shadesymbol number from shadeset colornames.shd
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 16
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: QUAL
Attribute_Definition: Qualification status of dataset feature
Attribute_Definition_Source: DOE/OCRWM/YMSCO

Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Q
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: DTN
Attribute_Definition: Data tracking number used for quality affecting data
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: TM00121362T1EA.001
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Entity_Type:
Entity_Type_Label: RADGRIDU.AAT
Entity_Type_Definition: Arc Attribute Table
Entity_Type_Definition_Source: DOE/OCRWM/YMSCO
Attribute:
Attribute_Label: -
Attribute_Definition: Arc Attribute Table
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: -
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: FNODE#
Attribute_Definition: Internal number of from-node
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: TNODE#
Attribute_Definition: Internal number of to-node
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:

Attribute:
Attribute_Label: LPOLY#
Attribute_Definition: Internal number of poly to left of arc
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RPOLY#
Attribute_Definition: Internal number of poly to right of arc
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: LENGTH
Attribute_Definition: Length of arc in coverage units
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Positive real numbers
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RADGRIDU#
Attribute_Definition: Internal feature number
Attribute_Definition_Source: Computed
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Sequential unique positive integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Attribute:
Attribute_Label: RADGRIDU-ID
Attribute_Definition: User-assigned feature number
Attribute_Definition_Source: User-defined
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Integer
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:

Attribute:
Attribute_Label: LSYM
Attribute_Definition: Linesymbol number from lineset doe.lin
Attribute_Definition_Source: DOE/OCRWM/YMSCO
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 102
Enumerated_Domain_Value_Definition:
Enumerated_Domain_Value_Definition_Source:
Overview_Description:
Entity_and_Attribute_Overview:
Arc: items radgridu.pat

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME	INDEXED?
1	AREA	4	12	F	3	-	
5	PERIMETER	4	12	F	3	-	
9	RADGRIDU#	4	5	B	-	-	
13	RADGRIDU-ID	4	5	B	-	-	
17	DESCRIPTION	75	75	C	-	-	
92	RING	2	3	C	-	-	
94	SLICE	2	3	C	-	-	
96	QUAL	3	3	C	-	-	
99	DTN	20	20	C	-	-	
119	SOURCE	20	20	C	-	-	
139	SSYM	4	5	B	-	-	

ITEM	DESCRIPTION	CODE VALUE/ARC COMMAND
DESCRIPTION	Description of dataset feature	84KM RADIOLOGICAL MONITORING GRID
RING	Ring identifier, numbered in ascending order away from ring center	Arc:list radgridu.pat
SLICE	Slice identifier, numbered in ascending order slice counterclockwise from north	Arc:list radgridu.pat
QUAL	Qualification status of dataset feature	Q
DTN	Data tracking number used for quality affecting data	TM00121362T1EA.001
SOURCE	Link to the GENTS database for complete source info	G97202,G96316,G96278
SSYM	Shadesymbol number from shadeset colornames.shd	16

Arc: items radgridu.aat

COLUMN ITEM NAME WIDTH OUTPUT TYPE N.DEC ALTERNATE NAME INDEXED?

1	FNODE#	4	5	B	-	-	
5	TNODE#	4	5	B	-	-	
9	LPOLY#	4	5	B	-	-	
13	RPOLY#	4	5	B	-	-	
17	LENGTH	4	12	F	3	-	
21	RADGRIDU#	4	5	B	-	-	
25	RADGRIDU-ID	4	5	B	-	-	
29	LSYM	4	5	B	-	-	

ITEM DESCRIPTION CODE VALUE/ARC COMMAND
LSYM Linesymbol number from lineset 102
. doe.lin

Annotations are found on Level 1.

Entity_and_Attribute_Detail_Citation: Not Available

Distribution_Information:
Metadata_Reference_Information:
Metadata_Date: 19000712
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Steve Bodnar /Barbara Kistler
Contact_Organization: TRW Technical Data Management
Contact_Position: Mgr, TDM/GIS Baseline Admin.
Contact_Address:
Address_Type: physical address
Address: 1180 Town Center Drive
City: Las Vegas
State_or_Province: Nevada
Postal_Code: 89134
Country: USA
Contact_Voice_Telephone: (702) 295-4826
Contact_Facsimile_Telephone: (702) 295-4730
Contact_Electronic_Mail_Address: brk@halifax.ymp.gov
Hours_of_Service: 8am - 5pm

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: 19940608
Metadata_Time_Convention: Local Time
Metadata_Security_Information:
Metadata_Security_Classification_System: None
Metadata_Security_Classification: Unclassified
Metadata_Security_Handling_Description: None

ATTACHMENT II